

TITLE: DEVELOPMENT OF NOVEL ANTI-MICROBIAL AGENTS BASED ON BACTERIOPHAGE GENOMICS INVENTOR(S): Jerry Pelletier, et al.

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Fig. 3A

Functional assay on semi-solid support media

Frozen stock of phage 77 pTHA/ORF S. aureus RN4220 transformants 1:10 and 1:100 dilution in saline solution 3 µl of 1:10 and 1:100 dilution 5 µl of 1:10 dilution · Streak onto agar plates containing Spot onto agar plates containing 0, 2.5, 5, and 7.5 μM Na As O2 0, 2.5, 5, and 7.5 µM NaAsO2 O/N, 37°C

Compare bacterial growth on plates with and without NaAsO2

Fig. 3B

Functional assay in liquid medium

O/N culture inoculated from frozen stock of phage 77 pTHA/ORF S. aureus RN4220 transformants 1:100 dilution of O/N culture 2 h, 37°C, 250 rpm Fresh culture 150 μΙ 2.5 ml containing 0 and 5 µM NaAsO2 3.5 h, 37°C, 250 rpm Measure OD₅₆₅ 1:10 serial dilution from 10^{-1} to 10^{-6} 20 μl of 10⁻⁴ to 10⁻⁶ Spot onto agar plate O/N, 37°C Count colonies